UUU UUU UUU UUU UUU	UUU UUU UUU UUU	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE		PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
UUU	UUU	EEE	ŤŤŤ	PPP PPP
ŬUŬ	ŬŬŬ	ĒĒĒ	ŤŤŤ	PPP PPP
UUU	UUU	EEE	TTT	PPP PPP
UUU	UUU	EEE	ΙΙΙ	PPP PPP
UUU	UUU	EEEEEEEEEE	III	PPPPPPPPPP
UUU	UUU	EEEEEEEEEE	ŢŢŢ	PPPPPPPPPPP
UUU	UUU	EEEEEEEEEE	ĬĬĬ	PPPPPPPPPPP
UUU	UUU	EEE	TTT	PPP
UUU	UUU	EEE	TTT	PPP
UUU	UUU	ĒĒĒ	TTT	PPP
UUU	UUU	EEE	TTT	PPP
UUU	UUU	EEE	TTT	PPP
UUU	UUU	EEE	TTT	PPP
	UUUUUUUU	EEEEEEEEEEEE	TTT	PPP
	UUUUUUUU	EEEEEEEEEEEE	TTT	PPP
UUUUUUU	UUUUUUUU	EEEEEEEEEEEE	TTT	PPP

Va ----00( 00( 7FI 7FI 7FI 7FI 7FI 7FI 7FI

\_\$

RRR RR RR RR RR	RRRRR RRRR RRR RR RR RRRR RRRR RR RR RR	MM MM MMMM MMMM MMMMM MMMMM MM MM MM MM MM	\$		\$	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	666666 6666666666666666666666666666666	•••
			\$					

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; store any carriage control info

0000

0000

0000 0000

0000

0000

112

114

115

116

PRE

.RESTORE

.ENDM STORE

.ASCII %STRING% \$\$.TMPX1=.-\$\$.TMPX

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RMSTEST6 V04-000

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```
118
119
                                    BEGIN TSTNAM
<TSTNAM>
#$$.TMPX.BEG_DESCR+4
#$$.TMPX1.BEG_DESCR
                          .MACRO
STORE
         MOVL
                                                                      ; addr
; len
                          MOVL
                          BSBW
                                     BEGPUT
                           .ENDM
                                     BEGIN
0000
                           .MACRO
                                     FINISH TSTNAM
                                     <TSTNAM>
#$$.TMPX.FIN_DESCR+4
#$$.TMPX1,FIN_DESCR
                          STORE
                          MOVL
                                                                      ; addr
; len
MOVL
                          BSBW
                                     FINPUT
                           .ENDM
                                     FINISH
                           .MACRO
                                     FIELD FLDNAM
                          STORE
                                     <FLDNAM>
                                     #$$.TMPX,FLD_DESCR+4
#$$.TMPX1,FLD_DESCR
                          MOVL
                                                                       ; addr
; len
                          MOVL
                          BSBW
                                     FLDPUT
                          .ENDM
                                     FIELD
                                     MBPT, ?L
VERBÓSITY,L
                           .MACRO
                          BLBC
                          BPT
0000
0000
                           .ENDM
                                     MBPT
0000
ŎŎŎŎ
```

 $(\tilde{4})$ 

.ASCII \MTST1\

.ASCII \NFFIX\

166 .ASC 167 NONFIL\_FNM:

168

31 54 53 54 4D

58 49 46 46 4E

02AC

02AC

RMSTEST6 V04-000

16-SEP-1984 01:49:14 5-SEP-1984 04:22:01

VAX/VMS Macro V04-00

CUETP. SRCJRMSTEST6. MAR: 1

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(6)

TEST MAGTAPE :

```
171
                                               this is a test program to test out the use of magtapes through rms-32
                                            ; it exercises the basic functionality
                                            TSTSMTA::
                     OFFC
                                                       .WORD
                                                                  ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
                                              create 3 files on the tape - with different record formats, and fill them
                                                       BEGIN
                                                                 <MAGTAPE TESTS>
                                       186
                                       187
                                               the 1st file -- rfm=fix
                                                       MOVAL MTARAB, R9

$FAB_STORE FAB=MTAFAB, RFM=FIX

FOP=<RWO, SUP>, RAT=<CR, BLK>, FAC=PUT
    59
          FD84 CF
                                       190
                        DE
                                       191
192
193
194
                                                                             FAB=MTAFAB, RFM=FIX, MRS=#50, FNA=MTFIX_FNM, -
                                                       $RAB STORE
                                                                            RAB=R9_RSZ=#50_RBF=IOBUF
                                       195
                                       196
197
198
199
200
201
202
203
                                              create a file and close it in order to discover if the device is mounted foreign
                                                       $CREATE FAB=MTAFAB, ERR=REPORT_ERROR
                                                       BSBW
                                                                  ERR
                                                                 CLOSE_MT
#DEV$V_FOR,FAB$L_DEV+MTAFAB,5$
                             030D
0310
0316
0319
              07B2
                        3ŏ
                                                       BSBW
                        ĔŎ
30
              18
04 FD2B CF
                                                       BBS
                                                       BSBW
                                       204
205
206
207
208
                        04
30
                                                       RET
              051E
                                            5$:
                                                       BSBW
                                                                 NON_FILE
                        04
                                                       RET
                                            STRMT:
                                                                  <CREATE 3 TEST FILES ON TAPE>
                                                       TYPE
                                                                  #50,R6
DO_PUT
              32
0758
                                       209
                                                       MOVL
          56
                                                                                                  ; alternate record size
                        30
                                       210
                                                       BSBW
                                                now the 2nd file w/ rfm = var
                                                       $FAB_STORE
FOP=ZPOS,SUP>
                                                                            FAB=MTAFAB, FNA=MTVAR_FNM, RFM=VAR, MRS=#0, BLS=#512,-
                                                                 #DEV$V_SQD,FAB$L_DEV(R0),10$; branch if not magtape
#FAB$M_BLK,FAB$B_RAT(R0); verify blk defaulting
DRE_____RAB=R9,R5Z=#79 ; primary length
  04 40 A0
1E A0
                                                       BBC
                 08
                        8A
                                       219
220
221
223
223
223
225
225
226
                                                       $RAB STORE
MOVZBL #59,R6
                                            105:
              3B
0723
                                                                                                    alternate size
                        30
                                                                  DO_PUT
                                                       BSBW
                                                now the 3rd file w/ rfm = vfc
```

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\$1 \$1 RMSTEST6

V04-000

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```
03B5
03B5
                                       03B5
                                               reread 3 created files and verify their contents
                                                   TYPE <RE-RL/...
$RAB_STORE RAB=MTAFAB, FR
$FAB_STORE FAB=MTAFAB, FR
RAT=#0, ORG=REL, FAC=<GET, BRO>
QCBW OPEN MT
MTAFAB+FAB$B_RFM, #F/
                                                               <RE-READ FILES CREATED IN STEP 1>
DRE RAB=R9,ROP=<LOC>
                                                                         FAB=MTAFAB, FNA=MTFIX_FNM, FOP=#0,-
                         30
91
13
                                                               MTAFAB+FAB$B_RFM,#FAB$C_FIX; is it fixed rfm?
            FC12 CF
                                                      FIELD
                                                               <RFM (NOT = FIXED)>
                                                               #DEV$V_SQD,FAB$L_DEV+MTAFAB,RMT2; skip test if disk
MTAFABFFAB$W_BLS,#2048 ; is block size right?
  1E FC16
                                           RMT1:
                                                      BBC
0800 8F
            FCOD CF
                         B1
                                                      CMPW
                         13
                                                      BEQL
                                                      FIELD
      32
                                           RMT2:
            FBE9 CF
                                                      CMPW
                                                               MTAFAB+FAB$W_MRS,#20
                                                                                              ; is record size right?
                   15
                         13
                                                      BEQL
                                                               RMT3
                              0450
                                                      FIELD
                                                               <MRS>
                                      256
257
258
                0738
                              0465
                                           RMT3:
                                                      BSBW
                                                               READ_MT
                                                                                              ; read and verify records
                        32
30
                     32
                                                               50.50
                              0468
                                                      .BYTE
                081A
                              046A
                                                      BSBW
                                                               EOF_CLOSE
                                                                                              ; check eof and close
                                       259
                              046D
                              046D
                                       260
                                       261
262
263
                              046D
                                               2nd file
                              046D
                              046D
                              046D
                                       264
                                                     $FAB_STORE
                                                                         FAB=MTAFAB, FNA=MTVAR_FNM, RAT=#0, ORG=REL
                              047F
                06B6
                                       265
                                                     BSBW'
                                                               OPEN MT
            FB99 CF
      02
                         91
                              0482
                                       266
                                                      CMPB
                                                               MTAFAB+FAB$B_RFM,#FAB$C_VAR
                         13
                  15
                              0487
                                       267
                                                     BEQL
                                                               RMT4
                              0489
                                       268
                                                      FIELD
                                                               \langle RFM (NOT = VAR) \rangle
            FB9A CF
0200 8F
                              049E
                                       269 RMT4:
                                                     CMPW
                                                               MTAFAB+FAB$W_BLS,#512
                                                                                             : is block size correct?
                         13
                              04A5
                                       270
                                                      BEQL
                                                               RMT5
                              04A7
                                                      FIELD
                                                               <BLS>
                                      272
273
274
                         B5
13
            FB76 CF
15
                                           RMT5:
                              04BC
                                                     TSTW
                                                               MTAFAB+FAB$W_MRS
                                                                                              ; is max record Jize right?
                              0400
                                                     BEQL
                                                               RMT6
                                                               <MRS>
                              0402
                                                     FIELD
                                       275
                                           RMT6:
                                                               READ_MT_VAR
                0601
                              04D7
                                                     BSBW
                                                                                             ; read & verify records
                                      276
277
                         30
                07AA
                              04DA
                                                      BSBW
                                                               EOF_CLOSE
                              04DD
                              04DD
                                               3rd file
                              04DD
                                       280
                              04DD
                                       281
                              04DD
                              04DD
                                                     SFAB STORE
                                                                         FAB=MTAFAB,FNA=MTVFC_FNM,RAT=#0,ORG=REL
                                       283
284
                                                               OPEN MT
                0646
                              04EF
                                                      BSBW
                         91
            FB29 CF
                              04F2
                                                               FAB$B_RFM+MTAFAB,#FAB$C_VFC; right record format?
                                                      CMPB
                                      285
286
288
288
288
290
                         13
                              04F7
                                                      BEGL
                                                               RMT7
                              04F9
                                                      i IELD
                                                               <RFM (NOT = VFC)>
                              050E
                                           RMT7.
                                                               #DEV$V_SQD, FAB$L_DEV+MTAFAB, RMT8; skip test if disk
                                                      BBC
0400 8F
            FB24
                         B1
                              0514
                                                      CMPW
                                                               MTAFABFFAB$W_BLS,#1024 ; right block size?
                         13
                              051B
                                                      BEQL
                                                               RMT8
                              051D
                                                      FIELD
                                                               <BLS>
```

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TEST MAGTAPE ;

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MTAFAB+FAB\$W\_MRS
RMT9
<MRS>
READ\_MT
75,55
EOF\_CLOSE B5 0532 13 0536 0538 FB00 CF 15 ; mrs ok?

291 RMT8: 292 293 294 RMT9: 295 296 TSTW BEQL FIELD BSBW .BYTE BSBW 0650 37 48 0550 0732 30 0552

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			05555 05555 05555 05555 05555 0584	298 299 300 301	* + + • • • • • • • • • • • • • • • • • •	nen mtva	r fil an	d tact s	spacing an	nd rewind
			0555 0555 0555	302 303 304		TETT III CYG				
			0555	305		TYPE	<perfor< th=""><th>M SPACIN</th><th>IG AND REW</th><th>IIND TESTS&gt;</th></perfor<>	M SPACIN	IG AND REW	IIND TESTS>
	05.47	70	0584	306		SFAB_ST	DRE	FAB=MTA	\FAB,FNA=M	ITVAR_FNM
	05A6	30	058F	307		BSBW	OPEN_MT	0.4000	DV 7 - #4 /	
			0592 0596	308 309		SRAB STI	UKE	KAR=KA	BK1=#10	; space count
	06F3	30	059F	310		BSBW	CHKEOF1			. verify at ant
	00, 3	50	05A2	311		SPAR ST	OPF	R9,BKT=	:#1 <b>6</b>	; verify at eof
			05A6	311 312 313		SRAB ST SSPACE BSBW	R9	117,0K1-	77 10	; space forward at eof
	06E3	30	05AF	313		BSBW	CHKEOF1			; verify still at eof
			05B2	314		SRAB ST	ORE	R9,BKT=	#-16	; backspace count
	0.40.5		05BA	315		SSPACE	R9			•
	06DF	30	0503	316		BSBW	CHKBOF	50 545	**	; verify at start of file
			05C6 05CA	317 318		SRAB ST	UKE DAD-DO	R9,BKT=		
	FA24'	30	0509	319		SSPACE BSBW	ERR	ERR=REPL	RT_ERROR	
	1767	<b>J</b> U	05DC	320		SPAR ST	ORF.	R¢,BKT=	<b>#</b> 0	: count = 0
			05DF	321		SRAB STO SSPACE BSBW	RAB=R9.	ERREREPO	RT_ERROR	, court - o
	FAOF'	30	05EE	322 323		BSBW	ERR			
			05F1	323		SRAB ST	ORE	R9,BKT=	:#-4	
			05F9	324		SSPACE	RAB=R9,	ERR=REPO	RT_ERROR	
	F9F5'	30	0608	325		BSBW	ERR			
			060B 060B	326 327						
			060B	328	read	records	from bl	ock 4 th	oru and of	file, verifying goodness
			060B	329	, reau	records	ITOM DC	UCK 4 (1)	iru enu or	rice, verifying goodness
			060B	330	•					
57	39	9A	060B	331		MOVZBL	#^A/!/+	24,R7		; starting rec #
	0592_	<b>30</b>	060E	332		BSBW	LOOP1	•		; verify records
	3B	4F	0611	333		BYTE	79,59			
			0613	334		SRAB STO	DRE	R9,BKT=	# <b>-</b> 100	
	067E	30	061B	335 336		PSPALE	KA			
	0571	30	0624 0627	330		BSBW BSBW	CHKBOF	VAD		; verify at start
	<b>U</b>	<b>J</b>	062A	337 338		SREWIND	RAR=RO	FRR=REPO	RT_ERROR	
	F9C41	30	0639	339		BSBW	ERR	# 1111 - 11 E 1 W		
	055C	30	063C	340		BSBW	READ_MT EOF_CLO	_VAR		
	0645	30	063F	341		BSBW	EOF_CLO	<b>5</b> E		

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5-SEP-1984	04:22:01	[UETP.SRC]RMSTEST6.MAR;1
		· · · · · · · · · · · · · · · · · · ·

```
344567890123345
344567890123345
                                                     test of "create if" and $nxtvol
                                    064
                                    0642
                                                                      <PERFORM "CREATE IF", STRUNCATE AND SNXTVOL TESTS>
                                                            SFAB STORE
FOP=CIF, RFM=VAR
                                    0671
                                                                                FAB=MTAFAB, FAC=PUT, FNA=MTST1 FNM,-
                                    0671
                                    0680
                                                            SERASE FAB=RO
                                                                                                     ; erase in case disk file
                                    0695
0698
                                                                      CREATE_MT
                                                            BSBW
0000000018F
                  F96C CF
                              D1
                                                                      MTAFABFFAB$L_STS,#RMS$_CREATED
                                                            CMPL
                               13
                                             356
357
358
359
361
362
363
365
                                                            BEQL
                                    06A1
                                                                      RMT11
                                    06A3
                                                            FIELD
                                                                      <STS (EXPECTED 'RMS$_CREATED'')>
                      F945'
                               30
                                    0688
                                                            BSBW
                                                                      ERR
                                                                      DRE RAB=R9,RBF=IOBUF,RSZ=#50
#RAB$M_TPT,RAB$L_ROP(R9); allow put not at eof
RAB=R9,ERR=REPORT_ERROR
                                                 RMT11:
                                    06BB
                                                           $RAB_STORE
                      02
                              88
              04 A9
                                    0605
                                                            BISBZ
                                    0609
                                                            SPUT
                     F925'
03E4
                              30
30
                                    06D8
                                                            BSBW
                                                                      ERR
                                    06DB
                                                            BSBW
                                                                      CLOSE_MT
                                    06DE
                                    06DE
                                             366
367
                                    06DE
                                                     now re-open file just created above and overwrite record
                                    06DE
                                             368
                                    06DE
                                             369
                                    06DE
                                                            $FAB_STORE
                                                                                FAB=MTAFAB.FAC=<GET.PUT.TRN>.FOP=<CIF.NEF>
                                                                      CREATE_MT
MTAFAB*FAB$L_STS,#RMS$_NORMAL
                                             370
                     041B
                                    06EF
                                                            BSBW"
0000000018F
                               ĎĬ
                                    06F2
                                             371
                  F912 CF
                                                            CMPL
                                             372
373
                                                                      RMT12
                                   06FB
                               13
                                                            BEQL
FIELD
                                                                      <STS (EXPECTED 'NORMAL'')>
                                    06FD
                                    0712
0715
                               30
                     F8EB
                                                                      ERR
                                                            BSBW
                                                           $RAB_STORE
MOVL #59,R6
BSBW PUTRECS
                                             375 RMT12:
                                                                                RAB=R9, RBF=IOBUF, RSZ=#79
                                   0721
0724
0727
0727
                                             376
377
                        3B
                              D0
                                                                                                     ; alternate rec size
                               30
                     03B0
                                             378
                                             379
                                             380
                                                            test truncate
                                             381
                                             382
383
                     03AD
                                    0727
                                                                                                     ; write 2nd half of file
                              30
                                                            BSBW
                                                                      PUTRECS
                                    072A
0739
                                                            $REWIND RAB=R9, ERR=REPORT_ERROR
                              30
30
                                             385
                      F8C4'
                                                            BSBW
                                                                      ERR
                                             386
387
                                    0730
                                                                      READ_MT_VAR ; read 1st half of file RAB=R9,ERR=REPORT_ERROR ; need to advance the current
                      045C
                                                            BSBW
                                    073F
                                                            $GET
                               30
                                             388
                      F8AF'
                                    074E
                                                            BSBW
                                                                      ERR
                                                                                                       record pointer before truncate
                                                                                RAB-R9, ERR=REPORT_ERROR
                                    0751
                                             389
                                                            STRUNCATE
                              30
30
                                             390
391
392
393
394
396
397
                      F89D'
                                    0760
                                                            BSBW
                                                                      ERR
                                                                                                       truncate 2nd half of file
                                                                                ; check for eof RAB=R9,RBF=10BUF,RSZ=#79
                      0526
                                    0763
                                                            BSBW
                                                                      CHKEOF
                                                            $RAB_STORE
MOVL #59,R6
                                   0766
0772
0775
                     3B
035f
                              00
30
                                                                      PUTRECS
                                                                                                     ; re-put 2nd half
                                                            BSBW
                                    0778
                                                            $REWIND RAB=R9, ERR=REPORT_ERROR
                               30
30
                                   0787
078A
                      F876'
                                                            BSBW
                                                                      READ_MT_VAR
READ_MT_VAR
CHKEOF
                      040E
                                                            BSBW
                                                                                                     ; read 1st half
                                             398
399
                               30
30
                                    078D
                                                                                                     ; read 2nd half, verifying
                      040B
                                                            BSBW
                      04F9
                                    0790
                                                            BSBW
                                                                                                     ; check for eof again
```

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0999

480

```
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5-SEP-1984 04:22:01
                           VAX/VMS Macro VO4-00
                            [UETP.SRC]RMSTEST6.MAR:1
```

```
083B
083B
083B
                                           ; non-file structured tests
                              083B
                              083B
                              083B
                                             first write out a fix length 512 byte record file note: set tst$mta to disk if non_file structured disk test wanted. mount/fo dev /rec=512/blo=512
                              0838
                              083B
                              083B
                                      43344356789
                              083B
                              083B
                                           NON_FILE:
                              083B
                                                      TYPE
                                                               <NON FILE STRUCTURE CREATE TEST>
      59
            F7E2 CF
                                                               MTARAB, R9
                         DE
                                                     MOVAL
                                                     SFAB STORE FAB=MTAFRAT=#0,FAC=PUT,BLS=#512
                              086F
                                                                         FAB=MTAFAB, RFM=FIX, MRS=#512, FNA=NONFIL_FNM, -
                              0891
                                      440
                                                     SRAB_STORE
                                                                         RAB=R9, RSZ=#512, RBF = IOBUF
                        D0
30
 56
       00000200 8F
                                                               #512.R6
                              089D
                                                     MOVL
                                      442
                0204
                              08A4
                                                     BSBW
                                                               DO_PUT
                              08A7
                              08A7
                                      444
                              08A7
                                      445
                                              now open file and check attributes
                                      446
                              08A7
                              08A7
                                                     SRAB_STORE
SFAB_STORE
FAC=<GET,BRO>
                              08A7
                                                                         RAB=R9, ROP=<LOC>
                              08AF
                                      449
450
451
453
454
455
457
                                                                         FAB=MTAFAB, FNA=NONFIL_FNM, FOP=#0, RAT=#0,-
                              08AF
                0270
                              0805
                                                               ÖPEN_MT
                         30
                                                     BSBW
                              0808
                                                     $REWIND RAB=R9, ERR=REPORT_ERROR
                F726'
01E5
                        30
30
                              0807
                                                     BSBW
                              Ad80
                                                               CLOSE_MT #MTAFAB,RO
                                                     BSBW
                        DO
30
       0000000'8F
                              08DD
                                                     MOVL
                0251
                              08E4
                                                     BSBW
                                                               OPEN MT
                         91
      01
            F734 CF
                              08E7
                                                     CMPB
                                                               MTAFAB+FAB$B_RFM,#FAB$C_FIX
                  15
                         13
                                      458
                             08EC
                                                     BEQL
                                                               NF10
                              08EE
                                      459
                                                     FIELD
                                                               <RFM(NOT FIXED)>
  1E F738 CF
                              0903
                                      460 NF10:
                                                     BBC
                                                               #DEV$V_SQD,FAB$L_DEV+MTAFAB,NF20
            F72F ČF
15
                        B1
13
0200 8F
                                                               MTAFABTFABSW_BLS7#512
                              0909
                                      461
                                                     CMPW
                                      462
                              0910
                                                     BEQL
                                                               NF20
                              0912
                                                     FIELD
                                                               <BLS>
            F70B CF
15
0200 8F
                              0927
                                      464 NF20:
                                                     CMPW
                                                               MTAFAB+FAB$W_MRS,#512
                        13
                              092E
                                      465
                                                     BEQL
                                                               NF30
                                      466
467
468
469
470
                              0930
                                                     FIELD
                                                               <MRS>
                        E0
                                           NF 30:
                              0945
  03 F6F6 CF
                                                     BBS
                                                               #DEYSV_SQD, FABSL_DEV+MTAFAB, NF35
                0089
                             0948
                                                     BRW
                                                               NF 40
                                           NF 35:
                              094E
                                                     TYPE
                                                               <NON-FILE STRUCTURED MT TESTS>
                              097D
                                                     $RAB_STORE
                                                                         RAB=R9,BKT=#10
                                      471
                             0981
                                                     SSPACE
                                                              RAB=R9,ERR=REPORT_ERROR
                F66D'
                        30
                              0990
                                                               ERR
                                                     BSBW
                              0993
                              0993
                                      475
                              0993
                                             read records from block 11 thru end
                              0993
                              0993
                                                     MOVZBL #^A/!/ + 10,R7
                              0993
                        30
00
                020A
                              0996
                                      479
                                                               LOOP1
                                                     BSBW
```

0,0

.BYTE

Page 12 (14)

ONE 20:

RSB

05

DAAA

Page 13

(16)

FSB1 CF

0B0C

```
16-SEP-1984 01:49:14 VAX/VMS Macro V04-00 
5-SEP-1984 04:22:01 [UETP.SRC]RMSTEST6.MAR;1
```

```
533
533
533
536
537
                                   OAAB
                                  DAAB
                                   OAAB
                                   OAAB
                                                    subroutines to do the nitty-gritties of the magtape tests
                                   OAAB
                                   OAAB
                                           538
539
                                   OAAB
                                   OAAB
                                                           routine to create a magtape test file
                                   OAAB
                                                          r9 points to the rab rabsw_rsz(r9) contains the size of the records to be output
                                  OAAB
                                  OAAB
                                  OAAB
                                                           ró is the alternate size of the records to be output
                                                           r7 will be destroyed
                                   DAAB
                                   OAAB
                                                           rO has fab address
                                           546 :
547 :--
                                  OAAB
                                  OAAB
                                  DAAB
                                  DAAB
                                                DO_PUT:
                                           550
551
                    005F
                             30
10
                                  OAAB
                                                           BSBW
                                                                    CREATE MT PUTRECS
                                  DAAE
                       27
                                                          BSBB
                                                                                                      create the records
                                                           $DISCONNECT
                                                                               RAB=R9, ERR=REPORT_ERROR
                                  0AB0
                    F53E1
                             30
                                  OABF
                                                           BSBW
                                           SDAO
                                                CLOSE_MT
                                                          $CLOSE FAB=MTAFAB, ERR=REPORT_ERROR
                             30
05
                    F52A'
                                  OAD3
                                                          BSBW
                                                                     ERR
                                  OAD6
                                                           RSB
                                  OAD7
                                  OAD7
                                  OAD7
                                           560
                                                   subroutine to actually put the records in the file
                                           560 ; subrous 561 ; 562 ; 563 PUTRECS: 564 ; 565 LOOP: 566 ; 567 ; 568 ; 570 ; 571 ; 572 ; 573 ; 574
                                  OAD7
                                  OAD7
                                  OAD7
                57
                      21
                             DO
                                  OAD7
                                                          MOVL
                                                                    #0,(SP),R7,RAB$W_RSZ(R9),IOBUF; fill iobuf w/ characters
R7,aRAB$L_RHB(R9) ; fill in header
                                                                     #^A/!/,R7
                                                                                                    ; starting character
                                  DADA
                      00
57
                                  DADA
22 A9
         57
                                                           MOVC5
            2C B9
                             00
                                  OAE3
                                                           MOVL
                                  OAE7
                                                          $PUT
                                                                     RAB=R9, ERR=REPORT_ERROR
                    F507
                                  OAF 6
                                                          BSBW
                  22 A9
56
5 50
                             B0
B0
B0
F5
            50
22
                                  OAF 9
                                                          MOVW
                                                                     RAB$W_RSZ(R9),RO
                                                                                                   ; swap rec lengths
                                  OAFD
                                                          MUVW
                                                                     R6, RABSW_RSZ(R9)
                                  0B01
0B04
                                                          MOVL
                                                                     RO,R6
           0000007B 8F
 CE 57
                                                          AOBLSS #^X7B,R7,LOOP
```

RSB

14 (18)

RMSTEST6 V04-000

VQ.

```
0B9B
                                             610
                                                    read and check magtape file
                                     089B
                                                  READ_MT_VAR:
BSBB
                                     0B9B
                                     0B9B
                                                                    READ_MT
79,59
                             38 4F
                                     0B9D
                                             615
                                                            .BYTE
                                05
                                     0B9F
                                             616
                                                           RSB
                                     OBAO
                                             618 READ_MT:
                                     OBAO
                     57
                           21
                                DO
                                                           MOVL
                                                                     W^A/!/,R7
                                                                                                ; starting character
                                     ÓBA3
                                                  L00P1:
                                             62123623
                                D0
91
                                                                    RAB$L_FAB(R9),R1 ; Get the FAB address #FAB$C_FIX,FAB$B_RFM(R1) ; See if file is fixed 10$ ; If not then skip next test
                  51 3C A9
                                     OBA3
                                                           MOVL
                 1F A1
                                                           CMPB
                                     OBA7
                                12
                           08
                                     OBAB
                                                           BNEQ
                                                                    #^A/^/,R7
          57
                0000005E
                           8F
                                     OBAD
                                                           CMPL
                                                                                                  otherwise is the record of carret's
                           02
57
                                12
                                     0BB4
                                                           BNEQ
                                                                     10$
                                                                                                  Not carrets then continue
                                             626
627 10$:
                                     0BB6
                                                            INCL
                                                                                                 : Skip that record
                                     0888
                                                           SGET
                                     0BB8
                                                                     RAB=R9, ERR=REPORT ERROR
                                             629
630
                        F436'
                                30
                                     0BC7
                                                           BSBW
                                                                     ERR
       00000094'8F
                       28 A9
                                D1
                                                                     RAB$L_RBF(R9),#IOBUF
                                     OBCA
                                                           CMPL
                           10
                                12
                                     OBD2
                                                           BNEQ
                                                                                                   branch if locate mode worked
                                     OBD4
                                                           FIELD
                                                                     <RBF (INDICATES MOVE MODE)>
                                     OBE 9
                                                           MBPT
                 50
                       00 BE
                                             634 LP1:
                                     OBF 1
                                                           MOVZBL
                                                                    a(SP),RO
                                                                                                ; get expected size
                                12
30
31
                           08
                                             635
                                     OBF 5
                                                           BNEQ
                                                                     5$
                     0200 8F
               50
                                     OBF7
                                                            MOVZWL
                                                                    #512,RO
                                             636
                        AOOO
                                     OBF C
                                                           BRW
                                                                     105
                       07 57
                                E8
                                     OBFF
                                             638 5$:
                                                                     R7,10$
                                                           BLBS
                                                                                                 : branch unless alternate
                                     0002
                                                                     (SP),R0
                     50
                          6E
                                DO
                                             639
                                                           MOVL
                          Ã0
50
                       01
                                9A
                                     0005
                                             640
                                                           MOVZBL
                                                                    1(RO),RO
                                                                                                   get alternate record size
                                                                    RO,RAB$W_RSZ(R9)
                 22 AY
                                                                                                ; size right?
; branch if right
                                B1
                                     0009
                                             641 10$:
                                                           CMPW
                                             642
                           10
                                13
                                     0000
                                                           BEQL
                                     OCOF
                                                                    <RSZ>
                                                           FIELD
                                     0024
                                                           MBPT
                                             644
28 B9
         50
               57
                          00
                                2D
13
                                             645 LP2:
                    6E
                                                           CMPC5
                                                                    #0,(SP),R7,R0,@RAB$L_RBF(R9); record contents ok?
                                                                    <RBF (BAD RECORD CONTENTS)>
                                     ŎČ33
                                             646
                           1D
                                                           BEQL
                                     0C35
                                                           FIELD
                                     OC4A
                                             648
                                                           MBPT
                                             649 LP3:
650
651
652
653
                                91
12
               03
                    F3C9 CF
                                     0052
                                                           CMPB
                                                                    MTAFAB+FAB$B_RFM,#FAB$C_VFC
                                     0057
                                                                                                ; branch if not vic rfm
                                                           BNEQ
                                                                    1 P4
                 57
                                                                     arab$L_RHB(R9),R7
                       2C B9
                                     0059
                                D1
                                                           CMPL
                                                                                                 : rhb contents ok?
                                13
                                     0C5D
                           1 D
                                                           BEQL
                                                                     LP4
                                                                    <RHB>
                                     0.05F
                                                           FIELD
                                     0074
                                                           MBPT
                                             655 LP4:
     FF20 57
                       7A 8F
                                     0070
                                                           ACBB
                                                                     #^X7A,#1,R7,L00P1
                          Õ2
                                CO
                                                                    #2,(SP)
                     6E
                                     0083
                                             656
                                                           ADDL2
                                                                                                ; bump past args
                                 ŎŠ
                                             657
                                     0086
                                                           RSB
```

.END

RMSTEST6 V04-000

L 12

	<del></del>		•
RMSTEST6 Symbol table	TEST MAGTAPE ;	M 12 16-SEP-1984 01:49:14 VAX/VMS Macro V04-00 Pa 5-SEP-1984 04:22:01 [UETP.SRC]RMSTEST6.MAR;1	ge 17 (22)
\$\$.TAB \$\$.TABEND \$\$.TABEND \$\$.TMP1 \$\$.TMP2 \$\$.TMPX \$\$.TMPX \$\$.TMPX1 \$\$RMS_PBUGCHK \$\$RMS_BUGCHK \$\$RMS_UMODE .AFLG .MOD .N .TYP .LEN BEGPUT BEG_DESCR BUF CHECK ONE CHKEOF CHKEOF CHKEOF CHKEOF CHKEOF CHKEOF CHKEOF CHSEND CCEATE MT CMDORAB CREATE MT DEV\$V_SQD DO_PUT EOF_CLOSE ERR FAB\$B_FAC FAB\$B_FAC FAB\$B_FAC FAB\$B_FAC FAB\$B_FAC FAB\$B_FAC FAB\$C_BID FAB\$C_BID FAB\$C_BID FAB\$C_BID FAB\$C_SEQ FAB\$C_VFC FAB\$L_ALQ FAB\$C_VFC FAB\$L_ALQ FAB\$L_TOP FAB\$L_T	= 000000000	FABSV_BRO	

```
N 12
                                                                                         16-SEP-1984 01:49:14 VAX/VMS Macro V04-00
RMSTEST6
                                       TEST MAGTAPE :
                                                                                           5-SEP-1984 04:22:01
Symbol table
                                                                                                                    LUETP.SRCJRMSTEST6.MAR;1
                                                                                                                                                             (22)
RABSL_CTX
RABSL_FAB
RABSL_KBF
RABSL_RBF
RABSL_RHB
RABSL_ROP
RABSM_TPT
RABSV_LOC
RABSW_RSZ
READ_MT
READ_MT_VAR
REPORT_ERR
REPORT_ERR
RHBBUF
                                      = 00000018
                                      = 00000030
                                                       D
                                      = 00000030
                                                       D
                                      = 00000028
                                      = 00000020
                                        00000004
                                        0000002
                                         00000010
                                        00000022
                                         00000BÃÖ
                                         00000B9B
                                                       D
                                                           01
                                                           01
                                                           01
RHBBUF
                                                           01
                                         *****
RMSS_BOF
RMSS_CREATED
RMSS_EOF
RMSS_NORMAL
                                                           ŎÍ
                                                           Ŏi
                                                           Ŏi
                                                           Ŏ1
                                         *****
                                                           Ŏi
RMT1
                                         00000425 R
                                         000006BB R
00000715 R
                                                           Ŏi
RMT11
                                                           Ŏi
RMT12
RMT2
RMT3
                                         00000449 R
                                                           Ŏ1
                                         00000465 R
                                                           Ŏ1
RMT4
                                         0000049E R
                                                           Ŏ1
RMT5
                                         000004BC R
                                                           Ŏ1
                                         000004D7 R
RMT6
                                                           01
                                         0000050E R
00000532 R
RMT7
                                                           01
RMT8
                                                           Ŏ1
RMT9
                                         0000054D R
                                                           Õ1
STRMT
                                         0000031E R
                                                           Õ1
SYS$CLOSE
                                                     GX
                                                           01
SYS$CONNECT
                                                           01
SYS$CREATE
                                         ******
                                                           Õ1
SYS$DISCONNECT
                                                           01
SYSSERASE
                                         ******
                                                           01
SYS$GET
                                         *****
                                                           Õ1
SYS$NXTVOL
                                         ******
                                                           01
SYSSOPEN
                                         *****
                                                           01
SYS$PUT
                                         ******
                                                           01
SYSSREWIND
                                         *****
                                                     GX
                                                           Õ1
SYS$SPACE
                                         ******
                                                     GX
                                                           Ŏ1
SYS$TRUNCATE
                                         ******
                                                           01
                                                     GX
                                         00000000 RG D
T6START
                                                           Ŏ1
                                         000002B1 RG D
TSTSMTA
                                                           01
VERBOSITY
                                         ******
                                                             Psect synopsis!
PSECT name
                                                                PSECT No.
                                                                             Attributes
                                       Allocation
                                       0000000
                                                                       0.)
   ABS
                                                                                                                                        NOWRT NOVEC BYTE
                                                                             NOPIC
                                                                                              CON
                                                                                                     ABS
                                                                                                             LCL NOSHR NOEXE NORD
  RMSTEST
                                                     3277.)
                                                                       1.)
2.)
3.)
                                                                                                                           EXE
                                        00000CCD
                                                                01
                                                                             NOPIC
                                                                                       USR
                                                                                              CON
                                                                                                     REL
                                                                                                             GBL NOSHR
                                                                                                                                   RD
                                                                                                                                          WRT NOVEC LONG
SABSS
                                                                02
03
                                                         0.)
                                        00000000
                                                                             NOPIC
                                                                                       USR
                                                                                              CON
                                                                                                     ABS
                                                                                                             LCL NOSHR
                                                                                                                                   RD
                                                                                                                                          WRT NOVEC BYTE
SRMSNAM
                                        000000E
                                                        14.)
                                                                             NOPIC
                                                                                       USR
                                                                                              CON
                                                                                                      REL
                                                                                                             LCL NOSHR
                                                                                                                           EXE
                                                                                                                                   RD
                                                                                                                                          WRT NOVEC BYTE
__$RMSNAM
                                        00000241
                                                                             NOPIC
                                                                                       USR
                                                                                              CON
                                                                                                      REL
                                                                                                                           EXE
                                                                                                                                   RD
                                                                                                                                          WRT NOVEC BYTE
                                                                                                             LCL NOSHR
```

RM

Sy

SYYSEAAAAAAAAAAAAAAAAAAAAAA

XA XA XA

XA

XA

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XA

XA

XA

PS

--

\$R

Ph

In

Co Pay Pay Pay Ps Cr

As

87

Ťh

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66

RMSTEST6 VAX-11 Macro Run Statistics

TEST MAGTAPE :

16-SEP-1984 01:49:14 VAX/VMS Macro V04-00 5-SEP-1984 04:22:01 [UETP.SRC]RMSTEST6.MAR;1

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Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.08	00:00:00.52
Command processing Pass 1	29 105 431	00:00:00.56 00:00:25.02	00:00:03.36 00:00:54.87
Symbol table sort Pass 2	0 141	00:00:00.56 00:00:04.74	00:00:01.23 00:00:12.35
Symbol table output Psect synopsis output	20	00:00:00.15 00:00:00.02	00:00:00.35 00:00:00.03
Cross-reference output	Ŏ	00:00:00.00	00:00:00.00
Assembler run totals	730	00:00:31.15	00:01:12.72

The working set limit was 1500 pages.
115188 bytes (225 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 479 non-local and 17 local symbols.
695 source lines were read in Pass 1, producing 50 object records in Pass 2.
68 pages of virtual memory were used to define 50 macros.

Macro library statistics !

Macro library name

Macros defined

\_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1
\_\$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)

0 37 37

945 GETS were required to define 37 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:RMSTEST6/OBJ=OBJ\$:RMSTEST6 MSRC\$:RMSTEST6/UPDATE=(ENH\$:RMSTEST6)+EXECML\$/LIB

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